

### Abstract

Frequency channel selection in a data transmission method uses a frequency hopping method. In a first method step, interference in a frequency channel is determined by detecting multiple erroneous transmissions in the frequency channel, and the frequency channel with interference is then eliminated from the frequency hopping sequence. In a second method step, the strength of external signals is measured within the frequency range of an eliminated frequency channel with interference, and the frequency channel is reinserted into the frequency hopping sequence if the strength is below a prescribed threshold value.